

Professional Experience

Enzo Biochem, Inc., Senior Vice President, 1988-Present Enzo Therapeutics, Senior Vice President, 1991-present Enzo Diagnostics, Senior Vice President, 1991- present EnzoLabs, Senior Vice President, 1991-present Enzo Biochem, Inc., Vice President, Research, 1981-1988 Columbia University, College of Physicians and Surgeons, Assistant and Associate Professor, University of Connecticut, Assistant Professor, 1969-1972

Education

Postdoctoral Training:

The Rockefeller University, 1967-1968;

The Salk Institute, 1968;

Albert Einstein College of Medicine, 1968-1969.

Graduate Training: The Rockefeller University, Ph.D., 1967, laboratory of Norton D. Zinder; Dissertation in molecular genetics.

Undergraduate Training: Amherst College, B.A. in Biological Sciences, 1961.

Contributions

- •Member, Department of Energy (DOE), Scientific Committee (HERAC), 1983-1989;
- •Chairman, Biotechnology Subcommittee of HERAC, 1988-1989;
- •Member, DOE Human Genome Committee, 1988-1989;
- •Member, Board of Overseers, Biotechnology Center, State University of New York at Stony Brook, 1982-, Chairman, 1992-;
- •Member, Board of Overseers, Biotechnology Center for the State of Connecticut, 1982-.

BIBLIOGRAPHY

1. R.C. Valentine, <u>Dean L. Engelhardt</u>, and N.D. Zinder. (1964) Host-Dependent Mutants of the Bacteriophage f2. II. Rescue and Complementation of Mutants. Virol. <u>23</u>:159-163.

- 2. <u>Dean L. Engelhardt</u> and N.D. Zinder. (1964) Host-Dependent Mutants of the Bacteriophage f2. III. Infective RNA, Virol. <u>23</u>:582-587
- 3. G.W. Notani, <u>Dean L. Engelhardt</u>, W. Koningsberg, and N.D. Zinder. (1965) Suppression of a Coat Protein Mutant of the Bacteriophage f2, J. Mol. Biol. 12:439-447.
- 4. <u>Dean L. Engelhardt</u>, R.E. Webster. R.C. Wilhelm, and N.D. Zinder. (1965) *In Vitro* Studies of the Mechanisms of Suppression of a Nonsense Mutation. Proc. Natl. Acad. Sci. USA <u>54</u>:1791-1979.
- 5. R.E. Webster, <u>Dean L. Engelhardt</u>, and N.D. Zinder. (1966) *In Vitro* Protein Synthesis: Chain Initiation. Proc. Natl. Acad. Sci. USA <u>55</u>:155-161.
- 6. N.D. Zinder, <u>Dean L. Engelhardt</u>, and R.W. Webster (1966) Punctuation in the Genetic Code. Cold Spring Harbor Symp. Quant. Biol. <u>31</u>:251-256.
- 7. R.E. Webster, <u>Dean L. Engelhardt</u>, W. Koningsberg, and N.D. Zinder. (1967) Amber Mutants and Chain Termination *in vitro*. J. Mol. Biol. <u>29</u>:17-43.
- 8. <u>Dean L. Engelhardt</u>, R.E. Webster, and N.D. Zinder. (1967) Amber Mutants and Polarity *In Vitro*. J. Mol. Biol. <u>29</u>:45-52.
- 9. <u>Dean L. Engelhardt</u>, H.D. Robertson, and N.D. Zinder. (1968) *In Vitro* Translation of Multistranded RNA from *Escherichia coli* Infected by Bacteriophage f2. Proc. Natl. Acad. Sci. USA <u>59</u>:972-979.
- P.I. Marcus, <u>Dean L. Engelhardt</u>, J.M. Hunt, and M.J. Sekellick. (1971) Interferon Action: Inhibition of Vesicular Stomatitis Virus RNA Synthesis Induced by Virion-Bound Polymerase. Science <u>174</u>:593-598.
- 11. <u>Dean L. Engelhardt</u>, (1971) An Inhibitor of Protein Synthesis in Cytoplasmic Extracts of Density Inhibited Cells. J. Cell. Physiol. <u>78</u>:333-344.
- Dean L. Engelhardt, (1972) An Assay for Secondary Structure in Ribonucleic Acid.
 J. Virol. 2:903-908.
- 13. J.A. Hassell and <u>Dean L. Engelhardt</u>, (1973) Translation Inhibition of Extracts from Serum-Deprived Animal Cells. Biochem. Biophys. Acta <u>324</u>:545-553.
- 14. <u>Dean L. Engelhardt</u>, and Joseph Sarnoski, (1975) Variation in the Cell-Free Translating Apparatus of Cultured Animal Cells as a Function of Time During Growth. J. Cell. Physiol. <u>86</u>:15-30.

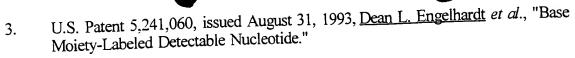
- 15. J.A. Hassell and <u>Dean L. Engelhardt</u>, (1976) The Regulation of Protein Synthesis in Animal Cells by Serum Factors. Biochemistry <u>15</u>:1375-1380.
- L. Skogerson and <u>Dean L. Engelhardt</u>, (1977) The Dissimilarity in Protein Chain Elongation Factor Requirements Between Yeast and Rat Liver Ribosomes. J. Biol. Chem. <u>252</u>:1471-1475.
- 17. <u>Dean L. Engelhardt</u> and Mao Jen-Hao, (1977) A Serum Factors Requirement for the Passage of Cultured Vero Cells Through G2. J. Cell Physiol. <u>90</u>:307-320.
- J.A. Hassell and <u>Dean L. Engelhardt</u>, (1977) Factors Regulating the Multiplication of Animal Cells in Culture. Expertl. Cell Res. <u>107</u>:159-167.
- 19. G.T-Y Lee and <u>Dean L. Engelhardt</u>, (1977) Protein Metabolism During Growth of Vero Cells. J. Cell. Physiol. <u>92</u>:293-302.
- 20. <u>Dean L. Engelhardt</u>, R.M. Santella, H.S. Rosenkranz, and W.T. Speck. (1977) the Effect of Light Treated Human Plasma on Cell Growth. Photochem. and Photobiol. <u>26</u>:53-55.
- 21. Lee, G.T-Y. and <u>Dean L. Engelhardt</u>, (1978) Growth Related Fluctuation in Messenger RNA Utilization in Animal Cells. J. Cell Biol. <u>79</u>:85-96.
- 22. Lee, G.T-Y. and <u>Dean L. Engelhardt</u>, (1978) Specific Cellular Peptides During the Growth of Animal Cells. J. Cell. Biol. <u>78</u>:R28-35.
- Pergolizzi, R.G., <u>Dean L. Engelhardt</u>, and D. Grunberger (1978) Formation of Phenylalanine Transfer RNA Lacking the Wye Base in Vero Cells During Methionine Starvation. J. Biol. Chem. <u>253</u>:6341-6344.
- 24. <u>Dean L. Engelhardt</u>, G.T-Y. Lee and Jeffrey Moley (1979) Patterns of Peptide Synthesis in Senescent and Presenescent Human Fibroblast. J. Cell Physio. <u>98</u>:193-198.
- 25. Silverstein, S.J. and <u>Dean L. Engelhardt</u>, (1979) Alterations in the Protein Synthetic Apparatus of cells infected with Herpes Simplex virus. Virology <u>95</u>:335-342.
- Lee, Gloria T-Y. and <u>Dean L. Engelhardt</u>, (1979) Peptide Coding Capacity of Polysomal or Nonpolysomal mRNA During Growth of Animal Cells. J. Molec. Biol. <u>129</u>:221-231.
- 27. Pergolizzi, R.G., <u>Dean L. Engelhardt</u>, and D. Grunberger (1979) Incorporation of lysine into Y base of phenylalanine tRNA in Vero Cells. Nucl. Acid Res. <u>6</u>:2209-2216.
- 28. Laskin, J.D., R.A. Mufson, I.B. Weinstein and <u>Dean L. Engelhardt</u>, 1980 Identification of a Distinct Phage During Meland Genesis that is sensitive to Extracellular pH and Ionic Strength J. Cell Physiol. <u>103</u>:467-474.
- 29. Matthew, E., <u>Dean L. Engelhardt</u>, Laskin, J.D., Zimmerman, E.A. Melanotropic Effects on Benzodiazepines: Correlation with High-Affinity Receptors. Trans. Am. Neurol.

Assoc. (1980) 105:38-9.

- 30. Matthew, E., J.D. Laskin, E.A. Zimmerman, I.B. Weinstein, K.C. Hsu and <u>Dean L. Engelhardt</u>, (1981) "Benzodiazepines have High-Affinity Binding Sites and induce Melanogenesis in B16/C3 Melanoma Cells" Proc. Natl. Acad. Sci., U.S. <u>78</u>:3935-3939.
- 31. Laskin, J.D., Mufson, R.A., Piccinini, L., <u>Dean L. Engelhardt</u>, Weinstein, I.B. Effects of the Tumor Promoter 12-0-Tetradecanoyl-Phorbol-13-Acetate on newly Synthesized Proteins in Mouse Epidermis. Cell. 1981 Aug. 25(2). p. 441-9.
- 32. Moley, J. and <u>Dean L. Engelhardt</u>. A Comparison of Surface Antigens of Senescent and Presenescent Human Fibroblasts. J. Gerontol. 1981 Mar. 36(2) p. 136-41.
- 33. Laskin, J.D. Piccinini, L., <u>Dean L. Engelhardt</u>, Weinstein, I.B. Control of Melanin Synthesis and Secretion by B16/Ce Melanoma Cells. J. Cell. Physiol. 1982 Dec. 113(3) p. 481-6.
- 34. Laskin, J.D., Piccinini, L., <u>Dean L. Engelhardt</u>, Weinstein, I.B. Specific Protein Production during Melanogenesis in B16/C3 Melanoma Cells. J. Cell. Physiol. 1983 Jan. 114(1). p. 68-72.
- 35. Matthew, E. Parfitt, A.G., Sugden, D., <u>Dean L. Engelhardt</u>, Zimmerman, E.A., Klein, D.C. Benzodiazepines: Rat Pinealocyte Binding Sites and Augmentation of Norepinephrine-Steimulated N-acetyl Transferase Activity. J. Pharmocol. Exp. Ther. 1984 Feb. 228(2). p. 434-8.
- 36. Olsiewski, P.J., Thalenfeld, B.E. and <u>Engelhardt, D.L.</u> (1984) Applications of nonradioactive DNA probe technology. American Clinical Products Review, October: 30-32.
- 37. Brakel, C.L. and Engelhardt, D.L. (1985) Synthesis and detection of 3'-OH terminal biotin-labeled DNA probes. In D.T. Kingsbury and S. Falkow (eds) Symposium on Rapid Detection and Identification of Infectious Agents, Academic Press, New York, pp. 235-243.
- 38. Olsiewski, P.J. and Engelhardt, D.L. (1984) DNA probes a valuable tool in diagnostics, October.
- 39. Brakel, C.L. Markarian, K. and Engelhardt, D.L. (1984) Non-radioactive biotin-dependent hybridization/detection using unlabeled probes DNA Abstract: American Society for Cell Biology.

Patents

- 1. U.S. Patent 4,755,458, issued July 5, 1988, Elazar Rabbani, <u>Dean L. Engelhardt</u> et al., "Composition and Method for the Detection of the Presence of a Polynucleotide Sequence of Interest."
- 2. U.S. Patent 4,894,325, issued January 16, 1990, <u>Dean L. Engelhardt</u> et al., "Hybridization Method for the Detection of Genetic Material."



- 4. U.S. Patent 5,260,433, issued November 9, 1993, <u>Dean L. Engelhardt</u> et al., "Saccharide Specific Binding System."
- 5. U.S. Patent 5,288,609, issued February 22, 1994, <u>Dean L. Engelhardt</u> et al., "Capture Sandwich Hybridization Method and Composition."
- 6. Canadian Patent 1,228,811, issued November 3, 1987, Robert G. Pergolizzi,, Jannis G. Stavrianopoulos, Elazar Rabbani, <u>Dean L. Engelhardt</u>, Stan Kline, and Paula Olsiewski, "Assay method utilizing polynucleotide sequences."
- 7. European Patent 0 159 719 B1, granted June 30, 1993, Elazar Rabbani and <u>Dean L. Engelhardt</u>, "Hybridization method for the detection of genetic materials."
- 8. Canadian Patent No. 1,260,372 issued September 26, 1989, Elazar Rabbani and <u>Dean L. Engelhardt</u>, "Hybridization method for the detection of genetic materials."
- 9. European Patent No. 0 173 339 B1 granted January 22, 1992, Elazar Rabbani and Dean L. Engelhardt, "Composition and method for the detection of the presence of a polynucleotide sequence of interest."
- 10. Canadian Patent No. 1,260,368, issued September 26, 1989, Elazar Rabbani and <u>Dean L. Engelhardt</u>, "Composition and method for the detection of the presence of a polynucleotide sequence of interest."
- 11. European Patent Application No. 84105028.9, Publication No. EP 0 128 332 A1, filed May 4, 1984, Robert G. Pergolizzi, Jannis G. Stavrianopoulos, Elazar Rabbani, <u>Dean L. Engelhardt</u>, Stan Kline and Paula Olsiewski, "Assay method utilizing polynucleotide sequences."
- 12. Israeli Patent No. 171666, Elazar Rabbani, <u>Dean L. Engelhardt</u>, Stan Kline and Paula Olsiewski.